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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/626,026	07/27/2000	Ashok Sengupta	54942USA4A.002	54942USA4A.002 9991	
32692	7590 06/20/2005		EXAMINER		
3M INNOVATIVE PROPERTIES COMPANY			LEVY, NEIL S		
PO BOX 3342	27			D . DED 187 (DED	
ST. PAUL, MN 55133-3427			ART UNIT	PAPER NUMBER	
			1615		
			DATE MAILED: 06/20/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commence	09/626,026	SENGUPTA ET AL.				
Office Action Summary	Examiner	Art Unit				
	NEIL LEVY	1615				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 16 March 2005.						
2a) ☐ This action is FINAL . 2b) ☐ This	This action is FINAL. 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowan	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) 45 and 49-56 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>45,49-56</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		ite atent Application (PTO-152)				
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Application/Control Number: 09/626,026

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The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 45, 51 and 56 are rejected under 35 U.S.C. 102(e) as being anticipated by Cooper et al 6,440,405.

Dendrimers, as the important polyurethane's derived fro polyisocyrates and polyactive H compounds (column 11, lines 19-37) with end capped quartering atrium corbel groups are disclosed.

Solution is adjustable as desired (column 11, last paragraph); water-soluble forms are known (column 13, lines 43-45). Applications are examples lifted at column 4; these include coated recited articles, coatings (paints) industrial articles, and are effective on polymer glass and metal substrates in general (claim 25) against microbes in general.

Claims 45, 49-56 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vandegaer et al 4,110,286.

The rejection of record is maintained in essence. The quaternary ammonium groups are similar to applicants there would function, about any showing to the contrary by applicant, similarly or antimicrobiol, and as water solution. Since emulsions are found, some degree of water solubility evident; applicant claims no degree. Neither does applicant claim homologous polyurethane's. Vandegaer provides polyurethane's of the important claims at column 2, A, columns 3, 4, B and columns 5, 6 C. Efficiency as coating of polymers textiles, paper, leather, and wood glass and metal are shown

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(column 18, lines 15-41). Absorbent any showing by applicant of failure of contains crobal effects of Vandegaers, the polymers are of the important claim, but for statements of water solubility. However, it is not all clear that the important claim 45 water soluble polymer actually is that which provides the instant claims 1-54 and 56 methods and articles, which require presumed stability and longevity to have the imputed functions—roofing shingle, medical article, and coating from aqueous dispersion. The claimed water-soluble polymer is not seen as any different from Vandegaers, also providing coated articles and materials.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Neil Levy whose telephone number is (571) 272-0619.

The examiner can normally be reached on Tuesday through Friday 7 a.m. to 5:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gray Kunz can be reached on (571) 272-0887. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NEIL S. LEVY PRIMARY EXAMINER